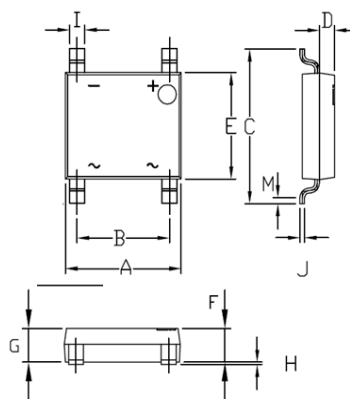


**GLASS PASSIVATED
BRIDGE RECTIFIERS**
**REVERSE VOLTAGE – 1000 Volts
FORWARD CURRENT – 1.0 Ampere**
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94-0

MECHANICAL DATA

- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Lowest Body Profile, 1.45mm
- Polarity indicator: As marked on body
- Weight: 92.7 m grams

TD


DIM.	MIN.	MAX.
A	4.90	5.10
B	3.95	4.05
C	6.30	6.45
D	0.60	0.70
E	4.30	4.5
F	1.4	1.6
G	1.35	1.45
H	0.05	0.15
I	0.60	0.70
J	0.15	0.25
M	0.30	0.60
All dimensions in mm.		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	TD10M	UNIT
	Marking	TD1M	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current @ $T_c = 110^\circ\text{C}$	$I_{(AV)}$	1.0	A
Peak Forward Surge Current single half sine-wave @ $T_j = 25^\circ\text{C}$ @ 8.3ms @ 1ms	I_{FSM}	30 60	A
Maximum Forward Voltage at 0.5A DC @ $T_j = 25^\circ\text{C}$	V_F	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_j = 25^\circ\text{C}$ @ $T_j = 125^\circ\text{C}$	I_R	10 150	μA
$I^2 t$ Rating for fusing (1ms < t < 8.3ms)	$I^2 t$	3.74	A^2S
Typical Junction Capacitance (Note 1)	C_J	10	pF
Typical Thermal Capacitance (Note 2)	$R_{\theta JC}$	20	$^\circ\text{C/W}$
	$R_{\theta JL}$	22	
	$R_{\theta JA}$	42	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Note :

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on Aluminum substrate _ 15 x 15 x 1.6mm.

REV. 3, Oct-2012, KBDA09

RATING AND CHARACTERISTIC CURVES TD10M

LITEON

FIG.1-FORWARD CURRENT DERATING CURVE

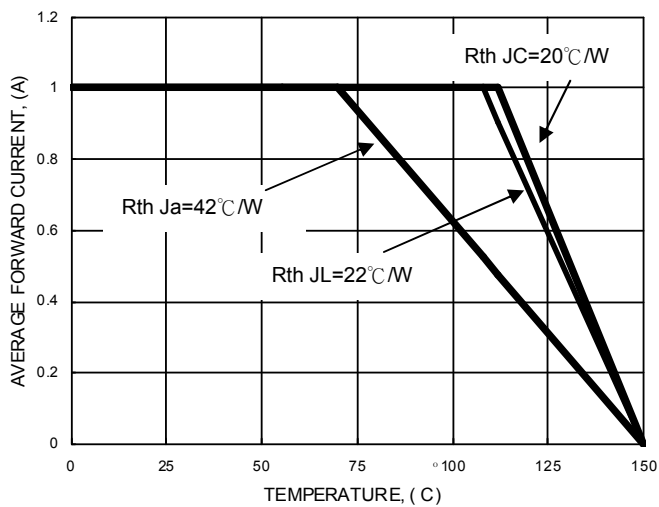


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

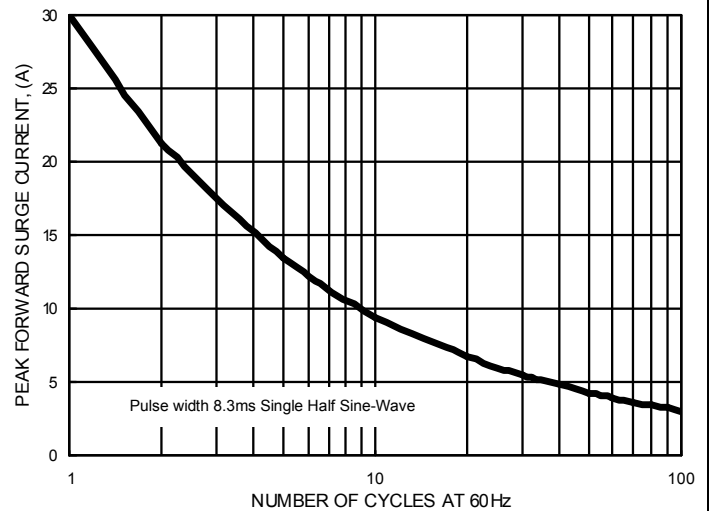


FIG.3- TYPICAL FORWARD CHARACTERISTICS

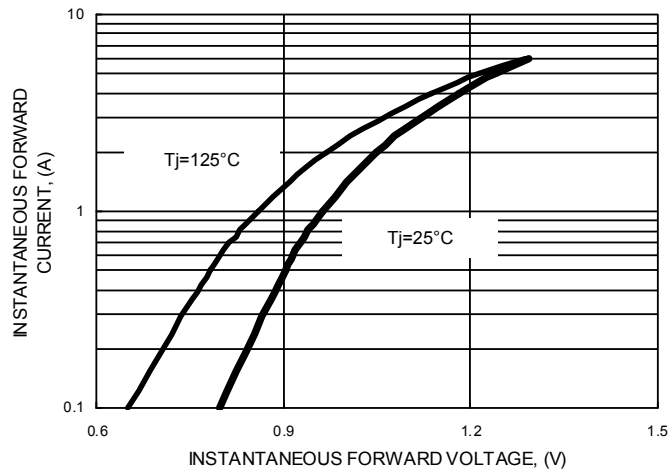


FIG.4- TYPICAL JUNCTION CAPACITANCE

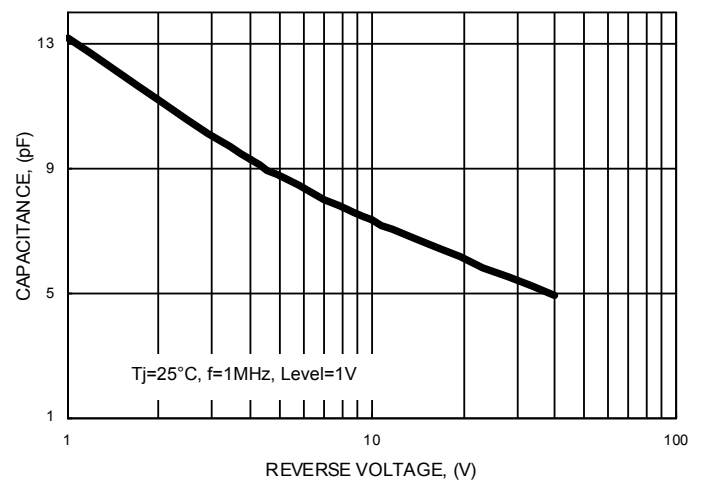
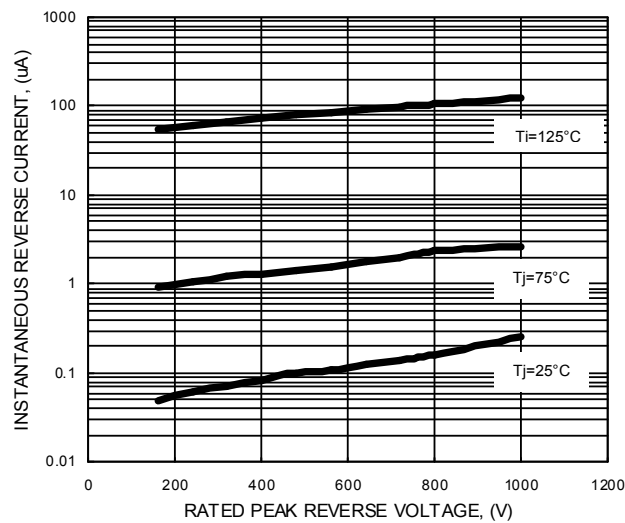


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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